

## **ABSTRACT**

The present invention provides an SDIO controller, an SDIO wireless communication card, an SDIO wireless communications module, and a method for transmitting write data from an SDIO host device to an SDIO application. Specifically, the SDIO controller is a single-chip semiconductor device connecting an SDIO-compliant SDIO host device with a plurality of applications via an SD bus, wherein the controller includes: (a) an SD interface operably connectable with the SDIO host device to decode commands received from the SDIO host device, and to return a response to the SDIO host device; (b) one or more application interfaces; and (c) a temporary memory operably connected between the SD interface and the one or more application interfaces.